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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,985	02/20/2002	Nitzan Arazi	2098/11	7971
DR. MARK FR	7590 01/05/2007 IEDMAN LTD		EXAM	IINER
c/o Bill Polkinghorn			ZEWDU, MELESS NMN	
Discovery Dispa 9003 Florin Way			ART UNIT	PAPER NUMBER
Upper Marlboro, MD 20772			. 2617	
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	NTHS	01/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
Office Action Commence	10/077,985	ARAZI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Meless N. Zewdu	2617	
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MOI tte, cause the application to become A	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 10	is action is non-final. ance except for formal mat	·	
Disposition of Claims			
4) ⊠ Claim(s) is/are pending in the applicat 4a) Of the above claim(s) <u>7-9,11,16-18,20,30</u> 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>7-8,11,16-17,20,30-31,34,38-39 and</u> 7) □ Claim(s) <u>9,18,32 and 40</u> is/are objected to. 8) □ Claim(s) are subject to restriction and	1-32,34,38-40 and 42 is/are	withdrawn from consideration.	
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Replacement of the second	ccepted or b) objected to the drawing(s) be held in abeya the ction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have beer au (PCT Rule 17.2(a)).	opplication No received in this National Stage	
Attachment(s) 1) Molice of References Cited (PTO-892)	4) T Interview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	s)/Mail Date nformal Patent Application	

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DETAILED ACTION

Response to Amendment

- 1. This action is in response to the communication filed on 10/10/2-6.
- 2. Claims 1-3, 13, 22-23, 27 and 35 were previously cancelled.
- 3. Claims 4-6, 10, 12, 14-15, 19, 21, 24-26, 28-29, 33, 36-37 and 41 have been cancelled in the current amendment.
- 4. Claims 1-6, 10, 12-15, 19, 21-29, 33, 35-37 and 41 are cancelled in the current amendment.
- 5. Claims 7-9, 11, 16-18, 20, 30-32, 34, 38-40 and 42 are pending in this action. The indicated allowability of claims 7-9, 11, 16-18, 20, 30-32, 38-40 and 42 is withdrawn in views of the newly discovered reference(s) to Kim et al. (Kim) (US 6,714,524 B1), Haartsen (US 6,490,446 B11) and Keskitalo (US 5,345,448). Rejections based on the newly cited reference(s) follow.

Claim Objections

Claim 11 is objected to because of the following informalities: the claim includes a typographical error '1ff' mistaken for RF. Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 7 recites the limitation "the group" in lines 9, 12 and 13. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "the group" in lines 11-12 and 15. There is insufficient antecedent basis for this limitation in the claim.

Claim 11 recites the limitation "the group" in line 16. There is insufficient antecedent basis for this limitation in the claim.

Claim 17 recites the limitation "the group" in line 16. There is insufficient antecedent basis for this limitation in the claim.

Claim 18 recites the limitation "the group" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 20 recites the limitation "the group" in line 17. There is insufficient antecedent basis for this limitation in the claim.

Claim 30 recites the limitation "the group" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim 31 recites the limitation "the group" in lines 9, 17. There is insufficient antecedent basis for this limitation in the claim.

Claim 32 recites the limitation "the group" in line 2. There is insufficient antecedent basis for this limitation in the claim.

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Claim 34 recites the limitation "the group" in lines 12 and 14. There is insufficient antecedent basis for this limitation in the claim.

Claim 38 recites the limitation "the group" in lines 9,15 and 16. There is insufficient antecedent basis for this limitation in the claim.

Claim 39 recites the limitation "the group" in lines 9 and 17. There is insufficient antecedent basis for this limitation in the claim.

Claim 40 recites the limitation "the group" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 42 recites the limitation "the group" in lines 12 and 13. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-9, 11, 16-18, 20, 30-32, 34, 38-40 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US 6,714,524 B1) in view of Keskitalo (US 5,345,448) and Haartsen (US 6,490,446 B1). For examination purposes, claim 8 is considered first.

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As per claim 8: Kim discloses, in a wireless communication system a method comprising a base station connected with a mobile unit (see fig. 1A; abstract; fig. 1; col. 1, line 62-col. 2, line 17; col. 5, lines 5-25), comprising:

transferring to the at least one base station waiting for the mobile unit to enter its coverage area timing information identifying a time interval (see col. 4, lines 8-22; col. 5, lines 8-25);

from the at least one base station waiting for the mobile to enter its coverage area, sending at least one PING command to the mobile unit during said time interval (see col. 4, lines 50-65; col. 5, line 2-25; claim 1);

at the base station waiting for the mobile unit to enter its coverage area, receiving at least one ECHO reply from the mobile unit (see col. 4, lines 50-65; col. 5, line 2-25; claim 1). The **command and response** signals between respectively the base station and mobile station in the prior art correspond to the PING and ECHO.

wherein the mobile unit is a device selected from the group consisting of: telephone handset, standard cordless handset, cellular telephone handset, personal data device, personal digital assistant (PDA), computer, laptop computer, e-mail server, a device utilizing point-to-point protocol (PPP) to the internet via a central remote access server, a headset, a personal server, a wearable computer, a wireless camera, and a mobile music device (see figs. 1A-1B; col. 2, lines 5-19). Since the devices in the group are not simultaneously utilized, rather one is selected, the mobile station of the prior art could have been the one selected. But, Kim doe not explicitly teach about a detecting a mobile unit by at least one other base station which is waiting for the mobile

unit to enter it coverage area and at each base station, maintaining information about connections between mobile units and neighboring base stations, wherein the information is selected from the group consisting of connection number, handset ID, base station ID, handoff status and handset status, as claimed by applicant. However, in the same field of endeavor, Keskitalo teaches about a procedure for the handover of radio connection, wherein a second base station is waiting for the mobile to move into its coverage area and wherein the first and second base stations each has the channel information and the mobile identity, among other things, so as to facilitate the handover procedure (see abstracta0. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Kim's reference with the teaching of Keskitalo for the advantage transmitting to a second base station identifying information regarding a mobile identification information regarding the mobile station including a frequency channel information enabling tuning of the second base station to a channel which the mobile shall transmit (see col. 2, lines 60-col. 3, line 5). But, Kim in view of Keskitalo do not explicitly teach about, at each base station, maintaining information about connection between mobile units and neighboring base stations, wherein the information is selected from the group consisting of connection number, handset ID, base station ID, handoff status and handset detection status, as claimed by applicant. However, in the same field of endeavor, Haartsen teaches about uncoordinated frequency hopping cellular system, wherein each base station receives information pertaining to at least one other base station, from more recent contact with mobile units, wherein the information includes synchronization/connection information

(mobile Ids and at least one base station ID is obvious from this communication) (col. 2, line 56-18; col. 9, lines 1-65). Since all members/elements in the group of information are not utilized, the connection information of the prior art could have been the one selected. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to further modify the above references with the teaching of Haartsen for the advantage of effecting handovers to take place between FH base stations even if the base stations are by no means coordinated (see col. 1, lines 6-12). As per claim 11: the features of claim 11 are similar to the features of claim 8, except providing communication links between the base stations, wherein the communication links between the base stations are selected from the group consisting RF and land lines, which is taught by Keskitlo (see fig. 1 and 2), wherein the communication system includes both RF and landline links; and except transferring connection status information and rough synchronization information between the base stations over the communication link, which is taught by Haartsen, as discussed above (see col. 2, line 66-33). The base stations update/correct their drift clocks which indicates the presence of rough sync. State. Thus claim 11 is rejected on the same g round and motivation as claim 8.

As per claim 16: the features of claim 16 are similar to the features of claim 8. Hence, claim 16 is rejected on the same ground and motivation as claim 8.

As per claim 17: the features of claim 17 are similar to the features of claim 8. Hence, claim 17 is rejected on the same ground and motivation as claim 8.

As per claim 20: the features of claim 20 are similar to the features of claim 11. Hence, claim 20 is rejected on the same ground and motivation as claim 11.

As per claim 31: the features of claim 31 are similar to the features of claims 8 and 30. Hence, claim 31 is rejected on the same ground and motivation as claims 8 and 30.

As per claim 34: the features of claim 34 are similar to the features of claims 11 and 30. Hence, claim 34 is rejected on the same ground and motivation as claims 11 and 30.

As per claim 39: the features of claim 39 are similar to the features of claim 30. Hence, claim 39 is rejected on the same ground and motivation as claim 30.

As per claim 42: the features of claim 42 are similar to the features of claims 11 and 30. Hence, claim 42 is rejected on the same ground and motivation as claims 11 and 30.

As per claim 7: the features of claim 7 are similar to the features of claim 8, except wherein the PING command comprises data fields selected from the group consisting of a device address for the mobile unit, an identifier for the mobile unit, a message length, and data and wherein the ECHO response comprises data fields selected from the group consisting of a device address for the mobile unit, an identifier for the mobile unit, a message length, and data, which is taught by Kim (see abstract; col. 2, line 35-col. 3, line 22; col. 4, line 50; col. 5, line 25; claims). In Kim, the base station and the mobile station exchange command and response message signals using the MAC layer (which is known to include and provide device addresses/identification). Hence, at least the mobile identifier/address and that of the

base station identifier/address should be obvious from the message/s exchanged and could have been the one /s selected. Therefore, claim 7 is rejected on the same ground and motivation as claim 8.

As per claim 30: the features of claim 30 are similar to the features of claims 7 and 8, except a second base station able to receive timing information identifying a timing of a time interval yielded by a first base station which is taught by Haartsen (see col. 3, lines 5-18). Hence, claim 30 is rejected on the same ground and motivation as claims 7 and 8.

As per claim 38: the features of claim 38 are similar to the features of claim 7. Hence, claim 38 is rejected on the same ground and motivation as claim 7.

Response to Arguments

Applicant's arguments with respect to claims 7-9, 11, 16-18, 20, 30-32, 34, 38-40 and 42 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 9, 18, 32 and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meless N. Zewdu whose telephone number is (571) 272-7873. The examiner can normally be reached on 8:30 am to 5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Banks-Harold Marsha can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry of a general nature relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Herder, delon

Meless Zewdu

Examiner

22 December 2006.